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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: June 17, 2003, 11:25:23 ; Search time 2343.59 Seconds
(without alignments)
11811.747 Million cell updates/sec

Title: US-09-807-933B-4
Perfect score: 1101
Sequence: 1 atgaggttctactattac.....caggtgttcagaataaa 1101

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 24791104 seqs, 12571243825 residues

Total number of hits satisfying chosen parameters: 49582208

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Pending Patents NA Main:

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SUMMARIES					Description	
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1	448	40.7	652	38	US-10-020-338-22238	Sequence 22238, A
2	378.2	34.4	540	38	US-10-020-338-22290	Sequence 22290, A
3	194.2	17.6	1473	29	US-09-735-787-3	Sequence 3, Appl1
4	194.2	17.6	1473	40	US-10-138-870-3	Sequence 3, Appl1
5	181.2	16.5	1423	10	US-08-651-1366-9	Sequence 9, Appl1
6	181.2	16.5	1423	38	US-10-007-521-9	Sequence 9, Appl1
7	178	16.2	927	10	US-08-651-1366-5	Sequence 5, Appl1
8	178	16.2	927	38	US-10-007-521-5	Sequence 5, Appl1
9	177.8	16.1	960	10	US-08-651-1366-1	Sequence 1, Appl1
10	177.8	16.1	960	38	US-10-007-521-1	Sequence 1, Appl1
11	177.8	16.1	1132	10	US-08-651-1366-21	Sequence 21, Appl1
12	177.8	16.1	1132	38	US-10-007-521-21	Sequence 21, Appl1
13	176.8	16.1	894	10	US-08-651-1366-3	Sequence 3, Appl1
14	176.8	16.1	894	38	US-10-007-521-3	Sequence 3, Appl1
15	166	15.1	1154	10	US-08-651-1366-7	Sequence 7, Appl1
16	166	15.1	1154	38	US-10-007-521-7	Sequence 7, Appl1
17	163.8	14.9	913	10	US-08-651-1366-13	Sequence 13, Appl1
18	163.8	14.9	913	38	US-10-007-521-13	Sequence 13, Appl1
19	162	14.7	885	10	US-08-651-1366-23	Sequence 23, Appl1
20	162	14.7	885	38	US-10-007-521-23	Sequence 23, Appl1
21	158.8	14.4	1174	10	US-08-651-1366-11	Sequence 11, Appl1

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

22 158.8 14.4 1174 38 US-10-007-521-11 Sequence 11, Appl
 23 154.6 14.0 1261 16 US-09-261-329-23 Sequence 23, Appl
 24 150.4 13.7 1060 5 US-08-122-453-1 Sequence 1, Appl
 25 150.4 13.7 1060 5 US-08-133-170-1 Sequence 1, Appl
 26 150.4 13.7 1060 5 US-08-140-008-3 Sequence 3, Appl
 27 150.4 13.7 1060 8 US-08-404-678-7 Sequence 7, Appl
 28 150.4 13.7 1060 8 US-08-457-546-7 Sequence 7, Appl
 29 150.4 13.7 1060 18 US-09-461-537-7 Sequence 1, Appl
 30 150.4 13.7 1060 29 US-09-735-787-1 Sequence 1, Appl
 31 150.4 13.7 1060 40 US-10-138-870-1 Sequence 15, Appl
 32 135.4 12.3 808 10 US-10-007-521-15 Sequence 15, Appl
 33 135.4 12.3 808 38 US-10-007-521-19 Sequence 19, Appl
 34 134 12.2 1031 10 US-08-651-136A-19 Sequence 19, Appl
 35 134 12.2 1031 38 US-10-007-521-19 Sequence 19, Appl
 36 134 12.2 1048 10 US-08-651-136A-17 Sequence 17, Appl
 37 134 12.2 1048 38 US-10-007-521-17 Sequence 17, Appl
 38 125.2 11.4 425 10 US-08-651-136A-25 Sequence 25, Appl
 39 125.2 11.4 425 38 US-10-007-521-25 Sequence 25, Appl
 40 109.8 10.0 830 80 US-60-360-039-27891 Sequence 27891, A
 41 96.8 8.8 627 66 US-60-220-535-241 Sequence 241, App
 42 94.6 8.5 627 66 US-60-220-535-233 Sequence 233, App
 43 94.6 8.5 428 66 US-60-220-535-244 Sequence 244, App
 44 92.4 8.4 416 66 US-60-220-535-256 Sequence 256, App
 45 90.8 8.2 417 66 US-60-220-535-278 Sequence 278, App

ALIGNMENTS

RESULT 1
 US-10-020-338-22238
 ; Sequence 22238, Application US/10020338

; GENERAL INFORMATION:
 ; APPLICANT: Andersen, Scott E.
 ; APPLICANT: Hammond-Kosack, Kim
 ; APPLICANT: Urban, Martin
 ; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With

; FILE REFERENCE: 38-21(52272)B
 ; CURRENT APPLICATION NUMBER: US/10/020,338
 ; CURRENT FILING DATE: 2001-12-12
 ; PRIOR APPLICATION NUMBER: US 60/255,575
 ; PRIOR FILING DATE: 2000-12-14
 ; NUMBER OF SEQ ID NOS: 25642
 ; SEQ ID NO 22238
 ; LENGTH: 652
 ; TYPE: DNA
 ; ORGANISM: Triticum aestivum
 ; FEATURE:
 ; OTHER INFORMATION: Clone ID: LIB4072-001-Q1-K6-E4
 ; US-10-020-338-22238

Query Match 40.7%; Score 448; DB 38; Length 652;
 Best Local Similarity 86.6%; Pred. No. 2,8e-124; Indels 3; Gaps 1;
 Matches 506; Conservative 0; Mismatches 75

QY 209 CTTGCAATGTGCAAGTTGATGTGCAATGTGTGTAAGACTGGAATGACCTACTT 268
 DB 72 CTGCTGAACTGCAAGTTGATGTGCAATGTGTGTAAGACTGGAATGACCTACTT 131
 QY 269 GTTGGCAATGTGCAATGCACTGTAAGTAAGCAAGTTACTACTCTCAATGCTGCCC 328
 DB 132 GTTGGCAATGTGCAATGCACTGTAAGTAAGCAAGTTACTACTCTCAATGCTGCCC 191
 QY 329 CTTGAAGCAATGCAATTAAGCTTGAAGGCTCATTAAGCACTACTCACTGCTC 388
 DB 192 CTTGAAGCAATGCAATTAAGCTTGAAGGCTCATTAAGCACTACTCACTGCTC 251
 QY 389 CCGCTAAGCAATTAAGCACTACTGCAAGGCTTCAATCTTCTAATCTAGCGCAAT 448
 DB 252 ---ATTAAAGCCCACTACTGCTCCCACTAAGAACTGCTGAGCCCACTGCAAT 308
 QY 449 ACTGCATGTTCTGTGGTGGCTCTGTGTAAGCGTCACTACTGTTATGGAATGCT 508

DB 309 ACTCGTGTCTCTGTGAGAGCTCTGTGTAAGCTGTCACACCACTCAATATTGGATGCT 368
 QY 509 GTTAAAGCTCTCTGTGAGAGCTCTGTGTAAGCTGTCACACCACTCAATATTGGATGCT 568
 DB 369 GTTAAAGCTCTCTGTGAGAGCTCTGTGTAAGCTGTCACACCACTCAATATTGGATGCT 428
 QY 569 ACAAGATGCTGTCAGTCCCTTGAAGCAAGCAATGTCACCAAGTGTGTAAGCTGTA 628
 DB 429 GCAAGATGCTGTCAGTCCCTTGAAGCAAGCAATGTCACCAAGTGTGTAAGCTGTA 488
 QY 629 ACAAGATGCTGTCAGTCCCTTGAAGCAAGCAATGTCACCAAGTGTGTAAGCTGTA 688
 DB 489 ACAAGATGCTGTCAGTCCCTTGAAGCAAGCAATGTCACCAAGTGTGTAAGCTGTA 548
 QY 689 TCGCTGCTGTCAGTCCCTTGAAGCAAGCAATGTCACCAAGTGTGTAAGCTGTA 748
 DB 549 TCGCTGCTGTCAGTCCCTTGAAGCAAGCAATGTCACCAAGTGTGTAAGCTGTA 608
 QY 749 TTAATTTCACTTCTTACCTCTGTTGCTGTGTAAGCAATGTTATC 792
 DB 609 TTAATTTCACTTCTTACCTCTGTTGCTGTGTAAGCAATGTTATC 652

RESULT 2
 US-10-020-338-22290/c
 ; Sequence 22290, Application US/10020338

; GENERAL INFORMATION:
 ; APPLICANT: Andersen, Scott E.
 ; APPLICANT: Hammond-Kosack, Kim
 ; APPLICANT: Urban, Martin
 ; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With

; FILE REFERENCE: 38-21(52272)B
 ; CURRENT APPLICATION NUMBER: US/10/020,338
 ; CURRENT FILING DATE: 2001-12-12
 ; PRIOR APPLICATION NUMBER: US 60/255,575
 ; PRIOR FILING DATE: 2000-12-14
 ; NUMBER OF SEQ ID NOS: 25642
 ; SEQ ID NO 22290
 ; LENGTH: 540
 ; TYPE: DNA
 ; ORGANISM: Triticum aestivum
 ; FEATURE:
 ; OTHER INFORMATION: Clone ID: LIB4072-001-Q1-N6-E4
 ; US-10-020-338-22290

Query Match 34.4%; Score 378.2; DB 38; Length 540;
 Best Local Similarity 89.1%; Pred. No. 3.7e-103; Indels 9; Gaps 1;
 Matches 423; Conservative 0; Mismatches 43

QY 627 TAAAGTAAAGTGTAAAGCAAGCAAGCAAGCTTGGGCTGTAAAGCAATATCTTGGCTATGG 686
 DB 540 TAAAGTAAAGTGTAAAGCAAGCAAGCAAGCTTGGGCTGTAAAGCAATATCTTGGCTATGG 481
 QY 687 TTTGGTGTGCTGTCAGTCAATGAGTGTGTGTGTAATCTGCTGCTGCTGCTGCTTTCGA 746
 DB 480 TTTGGTGTGCTGTCAGTCAATGAGTGTGTGTGTAATCTGCTGCTGCTGCTGCTTTCGA 421
 QY 747 ACTTACTTCACTTCTTACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 806
 DB 420 ACTTACTTCACTTCTTACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 361
 QY 807 TGGTGTGATCTTGGCTCTCTACTGAGTCTCACTTGAATGCAATGCTGCTGCTGCTGCTG 866
 DB 360 TGGTGTGATCTTGGCTCTCTACTGAGTCTCACTTGAATGCAATGCTGCTGCTGCTGCTG 310
 QY 867 TGTGTGATTTTCAATGTTGCTCCAGCAATGAGGCTGCTCCCAATGAGGCTGCTGCTGCTG 926
 DB 309 TGTGTGATTTTCAATGTTGCTCCAGCAATGAGGCTGCTCCCAATGAGGCTGCTGCTGCTG 250
 QY 927 GAGATAGGCTGATTTTCTTGTGCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 986

Db	249	GAGATACGCTGGTATTTCCTTGCGATCGSAGTGCCTA	GTCTCCTCCCAACTCCAA	CGC	190
Oy	987	TGTTGTATAATGAGATTCACTGTTTCAAGAACCCTGATA	CCCAAGCATGACTTAACA	1046	
Db	189	TGTTGTATTGGAATTCACACTGTTTCAAGAACCTGATA	CCCAAGTGTGACTTTCAA	130	
Oy	1047	GGAAGTCACTGTCCCAAGAAATACCGGCCAAGACAGTT	GTTCAGAAAATAA	1101	
Db	129	GGAGTACCTGTCTTAAAGAAATACCGGCCAAGACAGTT	GTGTGAAGAAATAA	75	
RESULT 3 US-09-735-787-3					
Sequence 3, Application US/09735787					
GENERAL INFORMATION:					
APPLICANT: Rasmussen, Grethe					
Mikkelsen, Jan Moller					
Schulein, Martin					
Pakhar, Shankant A.					
Hagen, Fred					
TITLE OF INVENTION: A Cellulase Preparation Comprising an					
Endoglucanase Enzyme					
NUMBER OF SEQUENCES: 33					
CORRESPONDENCE ADDRESS:					
ADDRESSEE: Novo Nordisk of North America, Inc.					
STREET: 405 Lexington Avenue, 64th Floor					
CITY: New York					
STATE: New York					
COUNTRY: United States of America					
ZIP: 10174-6401					
COMPUTER READABLE FORM:					
MEDIUM TYPE: Floppy disk					
COMPUTER: IBM PC compatible					
OPERATING SYSTEM: PC-DOS/MS-DOS					
SOFTWARE: Patentln Release #1.0, Version #1.30					
CURRENT APPLICATION DATA:					
APPLICATION NUMBER: US/09/735,787					
FILING DATE: 13-Dec-2000					
CLASSIFICATION: <Unknown>					
PRIOR APPLICATION DATA:					
APPLICATION NUMBER: 09/189,028					
FILING DATE: <Unknown>					
ATTORNEY/AGENT INFORMATION:					
NAME: Lambdis, Elias J.					
REGISTRATION NUMBER: 33,728					
REFERENCE/DOCKET NUMBER: 3469.214-US					
TELECOMMUNICATION INFORMATION:					
TELEPHONE: 212-867-0123					
TELEFAX: 212-878-9655					
INFORMATION FOR SEQ ID NO: 3:					
SEQUENCE CHARACTERISTICS:					
LENGTH: 1473 base pairs					
TYPE: nucleic acid					
STRANDEDNESS: single					
TOPOLOGY: linear					
MOLECULE TYPE: cDNA					
HYPOTHETICAL: NO					
ANTI-SENSE: NO					
ORIGINAL SOURCE:					
ORGANISM: Fusarium oxysporum					
STRAIN: DSM 2672					
FEATURE:					
NAME/KEY: CDS					
LOCATION: 97..1224					
SEQUENCE DESCRIPTION: SEQ ID NO: 3:					
US-09-735-787-3					
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Db	143	GTGTCGCTTCGGAAGGGGTCACTCTACTGATAC	TGGGATTTGGTCGAAGCTTCTTGCT	202
Qy	524	CGTGGCCCGGTAAAGCCCAATGTCA	GTCTCTCTGCAAGTCTGTAAACAAGATGTGTCA	583
Db	203	CTTGAGGGGAAAGCTGTCTCAACGCCCTTGCTTTAACTTGTGATTAAGAACACAAC		262
Qy	584	CTGCGCTTAAGTAGACAGCAATGTCCAAAGTGGCTGTAAACGGTGTGAACAGTTACATATGTGA		643
Db	263	CAATTTTCAACACCAATAGCTTCAACGGTTGTAGAGGGTGTGTCTTGCTTAATGTGTGA		322
Qy	644	ACGACAAACCAACCTTGGGCTGTGAACGATTAATCTTGCTATGTGTTTGGCTGTGTGCA		703
Db	323	CCAACTACTCTCCCTGGGCTGTCAACAGTAGCTTGCTTAAGTTTGGCTGTACAAAGA		382
Qy	704	TCAGTGTGTGTGTGAATCTTCGCTGTGTGTCTTCTTGTTGAACTTACTTCACTTCA		763
Db	383	TCTCCGGGTCTCCGAGGCCACAGCTGTGTGTGTGTCTTGTATGTCTTTCACCTTCAACACTG		442
Qy	764	CCTCTGTTGCTGTGAAGATGTGTATTCCAAGTCACTTAACACTGTGTGTATCTTGCT		823
Db	443	GCCCCGTAAAGGCAAGATGATGTCGTCACGTCCACCAACACTGGAAGTATCTCGGC		501
Qy	824	CCTCTACTGTGTCTCACTTTGACCTTGTCAATATGCCGGTGTGTGTGTGTTATTTTCAATG		883
Db	502	-----GACAAACACTTGTCATCTCATGATGCCCCGGGTGTGTGTATCTTGACAG		553
Qy	884	GTTGTCCCAACCAATGGGGTCTCCCAATGACGGTGTGGAGCTGAGATACGGTGTATTT		943
Db	554	GCTGACCTCTGAGTGTGG-----CAAGCTCTTCGGGGGTGTGCCAATACGGCGGATCT		607
Qy	944	CTTCTGCATCTGACTGTCTTGTACTTCTTCTTCCGCACTTCAAGCTGTGTGTAAATGTGAAT		1003
Db	608	CCTCCCGAAGGAATGTGATGCTAACCCCGAGCTTCTCAAGACGGTTGGCCACTGTGGCAT		667
Qy	1004	TCAACTGGTTCAAGAACGCTGATTAACCCCAACATGACTTACAGAAGATTACTGTGCCA		1063
Db	668	TCGACTGTTTGAAGAACCCCAACCTCTGACTTCACTTTGAGCAGGTTCAAGTCCCA		727
Qy	1064	AGGAATTCACCGCCCAAGACAGTTG		1088
Db	728	AGGCTCTCCTCGACATCATGTGATG		752

RESULT 4
US-10-138-870-3
Sequence 3, Application US/10138870
GENERAL INFORMATION:
APPLICANT: Rasmussen, Grethe
Mikkelsen, Jan Moller
Schulein, Martin
Pakkar, Shankant A.
Hagen, Fred
TITLE OF INVENTION: A Cellulase Preparation Comprising an
NUMBER OF SEQUENCES: 33
CORRESPONDENCE ADDRESS:
ADDRESSEE: Novo Nordisk of North America, Inc.
STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/138,870
FILING DATE: 03-May-2002
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/735,787

ADDRESS: Novo Nordisk of North America, Inc.
 STREET: 405 Lexington Avenue, 64th Floor
 CITY: New York
 STATE: New York
 COUNTRY: United States of America
 ZIP: 10174-6401
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 OPERATING SYSTEM: IBM PC compatible
 SOFTWARE: Patent Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/651,136A
 FILING DATE: 21-MAY-1996
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Lambiris, Elias J.
 REGISTRATION NUMBER: 33,728
 REFERENCE/DOCKET NUMBER: 4366,200-US
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 212-867-0123
 TELEFAX: 212-878-9655
 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 927 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..924
 US-08-651-136A-5

Query Match 16.2%; Score 178; DB 10; Length 927;
 Best Local Similarity 58.7%; Pred. No. 2,2e-42;
 Matches 370; Conservative 0; Mismatches 245; Indels 15; Gaps 3;

QY 471 CTCTGTAAAGGTCATCTACTCTGTTATTTGGATTCTGTAGGCTCTCTAGTACTGCC 530
 DB 60 CTGGGACATGGCCAGAGACCCGGTACTGGAGCTGTGACCAAGACCGACTGCGCTGACC 119
 QY 531 CGGTAAAGCCATGTCACTTCTCTGTCAAGTCTGTAAAGATGATGTGTCCTGCTCT 590
 DB 120 CGGCAAGGGGCC---CTGCTCTCCGGTGACGGCTCCGACCAAGACCAACCGCTCAA 176
 QY 591 TAGTACAGCAATGTCCAAAGTGTGTAAAGTGTGTAAAGT---TACATGTGTAAAGA 647
 DB 177 CGACGGCGGCTCCACCGCGTCCGGCTCGACGGGCGGACAGCGCTCATGTCTCTTC 236
 QY 648 CAACCAAGCTTGGGCTGTAAACGATATCTTGGCTTATGCTTCCGCTGCTGCATCAG 707
 DB 237 CCAAGAGCTCTGGGCGGTGACAGCGAGCTGTGTAGGCTGGGCGGCGCAAGCTGCG 296
 QY 708 TGTGTGTGTGAATCTCGCTGTGTCTGTCTTGTGTGAACTTACTTCTTACTTCTCTC 767
 DB 297 CGGACAGCTCCGAGTGTGAGTGTCTGCGCTCTGAGAGTGAACCTTCAACAGCGGCG 356
 QY 768 TGTGTGTGTGAAGAGTGTATCCAAAGTCACTAACAAGTGTGTGTGTGTGTGTGTCT 827
 DB 357 GGTTCGGGCGAAGAGATGATGTGCGAGGACCAACACCGGTGGCGACTGGGCGCTGGC 411
 QY 828 TACTGTGTCTCACTTGAACCTTGAATGCGGCTGTGTGTGTGTGTGTGTGTGTGTGTG 887
 DB 412 ---GACAAACACTTGTACCTGACCTACCCCGGTGGCGGTGTGTGTGTGTGTGTGTGTG 467
 QY 888 CTCGAAGCAATGGGCTGTCTCCCAATGACGGTGTGGGCTGAGATATCGGTGTATTTCTTC 947
 DB 468 CACCGACAGTACGCGCTCTCCCGCAAGCGCTGGGCGACCGCTACCGCGGCAATTCATTC 527
 QY 948 TGTATGTACTGTCTTACTTCTTCTTCTGCACTCCCAAGCTGTGTGTGTGTGTGTGTGT 1007
 DB 528 CAAAGAAAGTGTGAATCTTCTCCGAGGCGCTTCAAGCCGCGCTGCAACTGCGCTTGA 587

QY 1008 CTGTGTCAAGAACCGCTGTAAACCAAGATGACTTACAGAAAGTACTGTCTCCAGGA 1067
 DB 588 CTGTGTCCAAAGCGCCAGACACCCGCTGCTGCTCTTCTGAGAGTGTGCTTCCGCTGGA 647
 QY 1068 AATCAACCGCCAGACAGGTGTGTCAAGAAA 1097
 DB 648 GCTCAAGTCCAAAGCGCGCTGCTCCGTTA 677

RESULT 8
 US-10-007-521-5
 Sequence 5, Application US/10007521
 GENERAL INFORMATION:
 APPLICANT: Schuelein, Martin
 Andersen, Lene N.
 Lassen, Soren F.
 Kauppinen, Markus S.
 Lange, Lene
 Nielsen, Rudy I.
 Ihara, Michiko
 Takagi, Shinobu
 TITLE OF INVENTION: Novel Endoglucanases
 NUMBER OF SEQUENCES: 109
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Novo Nordisk of North America, Inc.
 STREET: 405 Lexington Avenue, 64th Floor
 CITY: New York
 STATE: New York
 COUNTRY: United States of America
 ZIP: 10174-6401
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 OPERATING SYSTEM: IBM PC compatible
 SOFTWARE: Patent Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/10/007,521
 FILING DATE: 10-DEC-2001
 CLASSIFICATION: <unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/651,136
 FILING DATE: 21-MAY-1996
 ATTORNEY/AGENT INFORMATION:
 NAME: Lambiris, Elias J.
 REGISTRATION NUMBER: 33,728
 REFERENCE/DOCKET NUMBER: 4366,200-US
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 212-878-9655
 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 927 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 1..924
 SEQUENCE DESCRIPTION: SEQ ID NO: 5:
 US-10-007-521-5

Query Match 16.2%; Score 178; DB 38; Length 927;
 Best Local Similarity 58.7%; Pred. No. 2,2e-42;
 Matches 370; Conservative 0; Mismatches 245; Indels 15; Gaps 3;

QY 471 CTCTGTAAAGGTCATCTACTCTGTTATTTGGATTCTGTAGGCTCTCTAGTACTGCC 530
 DB 60 CTGGGACATGGCCAGAGACCCGGTACTGGAGCTGTGACCAAGACCGACTGCGCTGACC 119
 QY 531 CGGTAAAGCCATGTCACTTCTCTGTCAAGTCTGTAAAGATGATGTGTCCTGCTCT 590


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Db 120 CCGCAGAGGCCCC--CTCGTCTCCGCTGACAGGCTCGGACAAAGACCAACCCGCTCAA 176
Qy 591 TAGTGACAGCAATGTCCAAAGTGGCTGTAAAGGTGTAAAGCT---TACATGTGTAAAGA 647
Db 177 CGACGGGGGCTCCACCCGGTCCGGAGCGGCGGAGCCGCTTACAGTGTCTCTC 236
Qy 648 CAACAGCCTTGGGCTGTAAACGATTAATCTTGGCTATGGTTCCTGCTGTGCTATCAG 707
Db 237 CCAGAGCCCTCGGCGCTGACGACGAGCTCTGTAAGGCTGGGCGGCGGCTCAAGCTGC 296
Qy 708 TGTGTGTGTGAATCTCGCTGTGTCTCTTCTTGTGTGAATCTTCACTTCTTACTCTC 767
Db 297 CCGCAGCTCCGAGTGTGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 356
Qy 768 TGTGTGTGTGAAGATGTGTATCCAGTACCTAAGCTGTGTGTGTGTGTGTGTGTGTGTGT 827
Db 357 GGTGCGGGGCAAGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 411
Qy 828 TACTGTGTCTCACTTGTGCAAAATGCGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 887
Db 412 ---GACAACTTGTGCTGTGCGCATCCCGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 467
Qy 888 CTCCAGCAATGGGGTGTCTCCAAATGACGTTGGGGCTCGAATACGGTGTATTTCTTC 947
Db 468 CACCGACCAATGACGGGCTCTCCCGAAGCGCTGGGGCGACCGCTACCGGCGCATTCATT 527
Qy 948 TGCATCTGACTGTCTTACTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 1007
Db 528 CAAAGAAAGTGCATCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 587
Qy 1008 CTGTGTGAAGAGCTGTATTAACCAAGCATGATTAAGAAATTAACCTGTCTCCAAAGA 1067
Db 588 CTGTGTCCAAACCGCCGACCAACCGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 647
Qy 1068 AATCAGCGCCAAAGACAGTTGTTCAGAAA 1097
Db 648 GCTCAGCTCAAGAGCGGCTGTCTCCGTTAA 677

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RESULT 9
US-08-651-136A-1
: Sequence 1, Application US/08651136A
: GENERAL INFORMATION:
: APPLICANT: Schuelein, Martin
: APPLICANT: Andersen, Lene N.
: APPLICANT: Lassen, Soren F.
: APPLICANT: Kauppinen, Markus S.
: APPLICANT: Lange, Lene
: APPLICANT: Nielsen, Ruby I.
: APPLICANT: Ihara, Michiko
: TITLE OF INVENTION: Novel Endoglucanases
: NUMBER OF SEQUENCES: 101
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Novo Nordisk of North America, Inc.
: STREET: 405 Lexington Avenue, 64th Floor
: CITY: New York
: STATE: New York
: COUNTRY: United States of America
: ZIP: 10174-6401
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/651,136A
: FILING DATE: 21-MAY-1996
: CLASSIFICATION: 435
: ATTORNEY/AGENT INFORMATION:
: NAME: Lambiris, Elias J.
: REGISTRATION NUMBER: 33,728
: REFERENCE/DOCKET NUMBER: 4366,200-US

```

```

TELECOMMUNICATION INFORMATION:
: TELEPHONE: 212-867-0123
: TELEFAX: 212-878-9655
: INFORMATION FOR SEQ ID NO: 1:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 960 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: cDNA
: FEATURE:
: NAME/KEY: CDS
: LOCATION: 113..787
US-08-651-136A-1

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Query Match 16.1%; Score 177.8; DB 10; Length 960;
Best Local Similarity 58.6%; Pred. No. 2.6e-42;
Matches 371; Conservative 0; Mismatches 247; Indels 15; Gaps 3;

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Qy 471 CTCTGTAAAGTGTCTACTACTCTGTATTTGGATTTGCTGTAAAGGCTCTGTACTGTGACC 530
Db 172 CTGGGGCATCGCCAGACGACCCGTACTGGACTGTCTGCAAGCCGAGCTGCGCTGCC 231
Qy 531 CGTTAAGCCCAATGTCAATCTCTCTGCAAGTCTGTAAACAAGATGTGTACTGCTCT 590
Db 232 CCGCAAGGCCCC--CTCGTCTCCGCTGACAGGCTCGGACAAAGACCAACCCGCTCAA 288
Qy 591 TAGTGACAGCAATGTCCAAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 647
Db 289 CGAGGGGGCTTCCACCCGGTCCGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 348
Qy 648 CAACAGCCTTGGGCTGTAAACGATTAATCTTGGCTATGGTGTGTGTGTGTGTGTGTGTGT 707
Db 349 CCAAGCCCCCTGGGCGCTGACGACGAGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 408
Qy 708 TGTGTGTGTGAATCTCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 767
Db 409 CCGCAGCTCGAGTGTGACGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 468
Qy 768 TGTGTGTGTGAAGATGTGTATTCAGATCACTAACAAGTGTGTGTGTGTGTGTGTGTGT 827
Db 469 GGTGCGGGGCAAGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 523
Qy 828 TACTGTGTCTCACTTGTGCAAAATGCGGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 887
Db 524 ---GACAACTTGTGCTGTGCGCATCCCGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 579
Qy 888 CTCCAGCAATGGGGTGTCTCCAAATGACGTTGGGGCTCGAATACGGTGTATTTCTTC 947
Db 580 CACCGACCAATGACGGGCTCTCCCGAAGCGCTGGGGCGAACCGCTACCGGCGCATTCATTC 639
Qy 948 TGCATCTGACTGTCTTACTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 1007
Db 640 CAAAGAAAGTGCATCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 699
Qy 1008 CTGTGTGAAGAGCTGTATTAACCAAGCATGATTAAGAAATTAACCTGTCTCCAAAGA 1067
Db 700 CTGTGTCCAAACCGCCGACCAACCGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 759
Qy 1068 AATCAGCGCCAAAGACAGTTGTTCAGAAAATA 1100
Db 760 GCTCAGCTCAAGAGCGGCTGTCTCCGTTAAGA 792

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RESULT 10
US-10-007-521-1
: Sequence 1, Application US/10007521
: GENERAL INFORMATION:
: APPLICANT: Schuelein, Martin
: APPLICANT: Andersen, Lene N.
: APPLICANT: Lassen, Soren F.
: APPLICANT: Kauppinen, Markus S.
: APPLICANT: Lange, Lene

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Wed Jun 18 17:55:43 2003

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Page 8

Nielsen, Rudy I.
Ihara, Michiko
Takagi, Shinobu
TITLE OF INVENTION: Novel Endoglucanases
NUMBER OF SEQUENCES: 109
CORRESPONDENCE ADDRESS:
ADDRESSEE: Novo Nordisk of North America, Inc.
STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/007,521
FILING DATE: 10-Dec-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/651,136
FILING DATE: 21-MAY-1996
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 4366.200-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 960 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 113..787
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-10-007-521-1

Query Match 16.1%; Score 177.8; DB 38; Length 960;
Best Local Similarity 58.6%; Pred. No. 2.6e-42; Indels 15; Gaps 3;
Matches 371; Conservative 0; Mismatches 247;
Db 471 CTGTGTAACGGGTGCTACTGCTGTAATGGGATTGCTGTAAGGCTTCTGTAGTGGCC 530
Db 172 CTGGGGATGCGGCACACGACCGGGATGCTGCAAGCCGAGCTGCGCTGAGCC 231
Qy 531 CGGTAAAGCAATGTCATGTTCTCTGTCAGTCCTGTAACAAGATGGTCACTGACCT 590
Db 232 CGGCAAGGGGCC--CTCGTCTCGGTGCGAGGCTGCGCAAGAACGACACCGCTCAA 288
Qy 591 TAGTGAAGCAATGTCACAAAGTGGCTGTAACGGTGTAAAGT--TACATGTGAAGA 647
Db 289 CGACGGGGCTCCACCGGCTGCGCTGCGACGGGGCGGAGGCGCTACATGTGCTCTC 348
Qy 648 CAACCAAGCTTGGGCTGTAAACGATATCTTGCTATGTTGGCTGCTGCTGATCAG 707
Db 349 CCAAGAGCCCTGGGCGCGTCAAGCGAGCTGTGTAAGGGTGGGCGGCGCTCAAGTCC 408
Qy 708 TGTGTGTGTAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 767
Db 409 CGGAGCTTCCAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 468
Qy 768 TGTGCTGTAAAGATGTTATCAAGTCACTTAACACTGTGTGTGATTTGGCTCC 827
Db 469 GGTCCGGGCAAGATGATGTGCAAGCAACCGGCTGCGACCTGGGC----- 523
Qy 828 TACTGTGCTCACTTGAATTGCAAAATCCCGGTGTGTGTGTGTGTGTGTGTGTGTGT 887

Db 524 ----GACACCATTTGACCTGGCCATCCCGGTGGCGGTGTGGTATTTTCAAGCCCTG 579
Qy 888 CTCCAGCAATGGGGTGTCTCCCAATGACGTTGGGGCTGGAATCGGTGATTTCTTC 947
Db 580 CACGACCAAGTACGGGCTCTCCCGCAACGGCTGGGGCGACCGCTACAGGGGATCATTC 639
Qy 948 TGCATGACTGCTCTAGTCTGCTCTTCCGACCTCAAGCTGTGTGAATGAGATTCA 1007
Db 640 CAAGAAAGTGGCAATCTTCCCGAGGCTCTCAAGCCCGGCTGCACTGGCGCTTCA 699
Qy 1008 CTGTTCAAGAACCTGATTAACCAACATGACTTCAAGAGTACCTGCTCCCAAGA 1067
Db 700 CTGTTCCAAAACGGCGCAACCCGCTGCTACCTTCAAGAGTGTGCTGCTGCTGGA 759
Qy 1068 AATCACCCGCAAGCAGGTGTGTCAGAAATA 1100
Db 760 GCTCAGTCCAAAGAGCGGCTGCTCCCTTAAGA 792

RESULT 11
US-08-651-136A-21
Sequence 21, Application US/08651136A
GENERAL INFORMATION:
APPLICANT: Schuelein, Martin
APPLICANT: Andersen, Lene N.
APPLICANT: Laessen, Soren F.
APPLICANT: Kauppinen, Markus S.
APPLICANT: Lange, Lene
APPLICANT: Nielsen, Rudy I.
APPLICANT: Ihara, Michiko
APPLICANT: Takagi, Shinobu
TITLE OF INVENTION: Novel Endoglucanases
NUMBER OF SEQUENCES: 101
CORRESPONDENCE ADDRESS:
ADDRESSEE: Novo Nordisk of North America, Inc.
STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/651,136A
FILING DATE: 21-MAY-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Lambiris, Elias J.
REGISTRATION NUMBER: 33,728
REFERENCE/DOCKET NUMBER: 4366.200-US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-867-0123
TELEFAX: 212-878-9655
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 1132 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 42..971
US-08-651-136A-21
Query Match 16.1%; Score 177.8; DB 10; Length 1132;
Best Local Similarity 57.8%; Pred. No. 2.8e-42; Indels 18; Gaps 3;
Matches 383; Conservative 0; Mismatches 262;

QY 1026 TAACCCAGACATCTTACAGAGAAATTAACCTGTGCCCAAGAAATACCGCCCAAGCAAG 1085
 Db 632 CAACCCCGACGCTCTCGAGCGCCGCTCCACATGTGCCCGCCGACATCAACCGACCGACCGCG 691
 QY 1086 TTG 1088
 Db 692 CTG 694

RESULT 13
US-08-651-136A-3

GENERAL INFORMATION:
APPLICANT: Schulte, Martin
APPLICANT: Andersen, Lene N.
APPLICANT: Lassen, Soren F.
APPLICANT: Kauppinen, Markus S.
APPLICANT: Lange, Lene
APPLICANT: Nielsen, Ruby I.
APPLICANT: Ihara, Michiko
APPLICANT: Tekagi, Shinobu
TITLE OF INVENTION: Novel Endoglucanases
NUMBER OF SEQUENCES: 101
CORRESPONDENCE ADDRESS:
ADDRESS: Novo Nordisk of North America, Inc
STREET: 405 Lexington Avenue, 64th Floor
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10174-6401
COMPUTER READABLE FORM: 4-10-

Query Match	16.1%	Score 176.8	DB 10	Length 894
Best Local Similarity	58.8%	Pred No. 5,142		
Matches 367		Mismatches 247	Indels 15	Gaps 3

QY	531	CGGTAAAGCCAAATGTCATGTTCTTCCTCTGTCAATGCTCTGTAAACAAAGATGTTACTAGTCCCT	590
	120	CGGCAAGGGGCCCTCTGCTCTCCGGTGTGAGGCTCTGCAGCAAGAACACAAACCCGGCTCA	176
Db			
QY	591	TACTGTACAGCAATGTTCCAAATGCTCTGTAAAGTGTCTAAACGT---TACTGTGTAAACG	647
	177	CAGCGCGGTCTCACCCTCGGCTCGGCTCGGACCCCGGCGGACCGCCCTCAATGTTCTCTC	236
Db			

QY	648	CAACCAAGCCTTGGGCTGTAAACGATTAATCTTCCGATATGATTTCCGTGCTGTGCATCAG	707
Db	237	CCAGAGGCCCTCGGGCCCGCTACGACACAGAGCTGTCTGACCGCTGGGCGGCGGCAAGCTGC	296
QY	708	TGATGATGATGAATCTCGCTGCTGCTGTTCTTGTTGAACTTACTTCACTTACTCTC	767
Db	297	CGGACGCTCCAGTGTGGCAGTGTGCTGCGCTGCTGACGAGCTGACCTTCCACACGGGAC	356
QY	768	TGTTGCTGTAAAGAAAGATGTTATCCAGTCATCACTAATGATGATGATCTTGCTCTCTC	827
Db	357	GGTCGGGGGCAAGAGATGATTTGCAAGGAGCAACACCGGTGGCGAAGCTGGG-----	411
QY	828	TACTGTGTCTACTTTGACTTGCAAATGCCGAGTGGTGGTGGTATTTTCATGTTG	887
Db	412	----GACAAACACTTTGACCTGGGCAATCCCGGAGGCGGTGCTGGATTTTTCMAAGCTGG	467
QY	888	CTCCAAAGCAATGGGCTCTCCCAATGACGTTGGGCGCTGAGATACGGGTGATTTCTTC	947
Db	468	CACCGACCAAGTACGGCGCTCCCGGCAACGGTGGGAGCAACGCTTACGGGCGCATTC	527
QY	948	TGCAATCTGACTGCTAGCTTAGCTTCTTCCGCACTCCAGACTGTTGTAATGAGATTCAA	1007
Db	528	CAMGAAAGATGTGGAACTCTTCCGGGAAGCCCTCAACCCGCGCTGCACCTGGCGTTGCA	587
QY	1008	CTGGTTCAAGAACGCTGATTAATCCCAAGATGAACTTAAGAAAGTTAAGCTGTCCCAAGA	1067
Db	588	CTGGTTCCAAAGCGCGCAACCCGTCGATCACTTCAGAGAGTGGCTGCGCCGTGGCA	647
QY	1068	AATCAGCGCCAGACAGGTGTTTC	1091
Db	648	GCTACGCTCCAGAGGGCGTGGCTG	71

RESULT 14
US-10-007-521-3

GENERAL INFORMATION:
APPLICANT: Schultein, Martin
Andersen, Lene N.
Lassen, Soren F.
Kauppinen, Markku S.
Lange, Lene
Nielsen, Ruby I.
Ihara, Michiko
Takagi, Shinobu
TITLE OF INVENTION: Novel Endoglucanases
NUMBER OF SEQUENCES: 109
CORRESPONDENCE ADDRESS:
ADDRESSES: Novo Nordisk of North America, Inc
STREET: 405 Lexington Avenue, 64th Floor

OPENING ORIGIN: 1
SOFTWARE: Patent Release #1.0, Version #1.30 2
CURRENT APPLICATION DATA: 3
APPLICATION NUMBER: US/10/007,521 4
FILING DATE: 10-Dec-2001 5
CLASSIFICATION: <Unknown> 6
PRIOR APPLICATION DATA: 7
APPLICATION NUMBER: US/08/651,136 8
FILING DATE: 21-May-1996 9
ATTORNEY/AGENT INFORMATION: 10
NAME: Lambiris, Elias J. 11
REGISTRATION NUMBER: 33,728 12
REFERENCE/DOCKET NUMBER: 4366-200-US 13
TELECOMMUNICATION INFORMATION: 14
TELEPHONE: 212-867-0123 15

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Page 12

Db 474 ATGCCGGTGGAGGTCTGGCATCTTGACGCGCTGCACCCCGCAGTTGGGCTTCAGCTTC 533
QY 913 GACGGTTGGGGCTCGAGATACGATGTATTTCTTGCACTGACTGCTTACTTCCCT 972
Db 534 CCC-----GCGACCGCTACGGCGGTACACAGCCGCAGCCAGTGGCGCGAGCTGCC 587
QY 973 TCCGCACTCCAGCTGTGTATTAATGAGATTCACTGTTCAAGAACGCTGATTAACCA 1032
Db 588 TCCGTCTCCGTGACGCGCTGCCACTGGCGTTACGACTGTTCAGAGATGCCGACACCCC 647
QY 1033 AGCATGACTTACAGAGAGTTACTGTGCCAAGAAATCACCGCCAGACAGCTTG 1088
Db 648 AACGTCACTGGCGCGCGTCCGATGCCGCGGCCCTCACGAAACCGCTCCGCGCTG 703

Search completed: June 17, 2003, 22:43:39
Job time : 2346.59 secs